Biotechniques

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available in pmc 2018 november 17. ipt. acknowledgements this work was supported by the national swine research and resource center (nsrrc) u42 od011140. this paper is subject to the nih public access policy. references references 1. whitworth km, et al., use of the crispr/cas9 system to produce genetically ...* ***drug discovery - dartmouth*** *- biotechniques 33:1146-1151 (november 2002) virus vector systems when heterolo-gous promoters are used (12,14). in our one-plasmid system, the cmv promot-er is located downstream of the hiv2 5′ ltr to direct tat gene expression. whether the hiv ltr interacts with* ***short technical reports minigene reporter for ...*** *- 178 ıbiotechniques ıbiotechniques vol. 41 ı no. 2 ı 2006 short technical reports and was described previously (10). the flanking intronic segments from this minigene were pcr-amplified using oligonucleotides containing appro-priate restriction sites and inserted between sali/bamhi and xhoi/xbai restriction sites to construct rf300 (see* ***short tandem repeat typing technologies used in human ...*** *- biotechniques 43:sii-sv (october 2007) doi 10.2144/000112582 short tandem repeat (str) typing methods are widely used today for human identity testing applications including forensic dna analysis. following multiplex pcr amplification, dna samples containing the length-variant str alleles are typically separated* ***imagej for microscopy - medicine.osu*** *- imagej for microscopy tony j. collins biotechniques 43:s25-s30 (july 2007) doi 10.2144/000112517 mcmaster biophotonics facility, mcmaster university, hamilton, on, canada of short add-on programs to provide additional functionality to the core program. these additional files are either written in java (the plugins) or in* ***reports - seas.upenn*** *- vol. 54 | no. 5 2013 272 biotechniques signaling pathways are done in isolation. the effects of thrombin (9), adp (10), and collagen (11) are known in great detail, but the previous studies do not address the condi - tions of the non-isotropic environment of a thrombus with many signaling molecules (12).* ***one-step real-time duplex reverse transcription pcrs ...*** *- biotechniques 36:508-519 (march 2004) we developed a one-step real-time duplex reverse transcription pcr (rt-pcr) method using the lightcycler ® platform. this method* ***spectral domain optical coherence tomography: a better oct ...*** *- biotechniques 39:s6-s13 (december 2005) doi 10.2144/000112090 this paper reviews the current state of research in spectral domain optical coherence tomography (sdoct). sdoct is an interferometric technique that provides depth-resolved tissue structure information encoded in the magnitude and delay of the back-scattered light by spec-* ***the impact of rnasez mts on glycolysis ... - biotechniques*** *- the impact of rnasezΔmts on glycolysis in drosophila melanogaster meng jiao department of biological sciences, fordham university, bronx, ny 10458 mjiao@fordham abstract: drosophila rnasez is essential for trna 3'-end maturation. drnasezΔmts mutant that lacks the mitochondrial targeting signal affects the mitochondrial activity and* ***answer key biotechniques laboratory dna extraction [epub][pdf]*** *- answer key biotechniques laboratory dna extraction [epub][pdf] [pdf] answer key biotechniques laboratory dna extraction pdf book is the book you are looking for, by download pdf answer key biotechniques laboratory dna extraction book you are also motivated to search from other sources pcr amplification - promega introduction.* ***benchmarks - university of houston*** *- 160 biotechniques with an equal volume of pbs for flow cytometry. using the geometric mean (gm) of clonal arac-tal fluorescence response to 5 mm tal as the reference, a signif-* ***benchmarks topographical imaging technique for qualitative ...*** *- biotechniques). when 2-d gene response graphs are generated, a logarithmic scale can be used to show the more biologically significant fold-change for each gene (figure 1). in this type of plot, the points along the diagonal represent genes that exhibited identical expression between the two treatments. in addition, data* ***biot 5211 advanced biotechniques credit hours: 2 semester ...*** *- biot 5211 advanced biotechniques credit hours: 2 semester: fall year: 2018 class day/time: mon 9 – 11 am class location: bmr 116.1 instructor of record: dr. amy tvinnereim office: bmr lab b3 office phone: 903-877-5189* ***research report - homerncer*** *- biotechniques 30:1028-1034 (may 2001) tech laboratories. the mgin retroviral vector contains the egfp gene e- x pressed from the murine stem cell virus (mscv) long*

terminal repeat on a b- i cistronic transcript that also contains a downstream neomycin resistance (neor) ***high-sensitivity quantitative pcr platform*** *- 106 biotechniques vol. 34, no. 1 (2003) high-sensitivity quantitative pcr platform biotechniques 34:106-115 (january 2003) balb/c mice (8). mouse lungs were homogenized in disposable tissue grinders (closed tissue grinder sys-tem ...* ***benchmarks - phys.ufl*** *- 4 ı biotechniques ı biotechniques vol. 41 ı no. 5 ı 2006 benchmarks supplementary figure s5. hexbin generated graphic. the same data as presented in supplementary figure s2 from the main article is binned in (a) with ufgenie and in (b) with the r hexbin package (4). unexpected data bifurcations are revealed in both panels.* ***reports - mark blenner*** *- biotechniques. method summary: a new calcium-responsive tag based on a consensus sequence found in the natural repeat-in-toxin (rtx) domain is presented. this calcium-responsive tag works under gentler reaction conditions than existing approaches and can be removed through protease cleavage, resulting in a pure, active target protein.* ***chapter 10 mountain lion (puma concolor - wyoming game*** *- 10-1 chapter 10 mountain lion (puma concolor) dave moody, dan bjornlie, mike hooker, and scott becker i. introduction – a. management – efforts to manage mountain lions have changed markedly since the* ***tissue culture applications - aggie horticulture*** *- hort689/agro689 biotechniques in plant breeding 1 tissue culture applications • micropropagation • germplasm preservation • somaclonal variation & mutation selection • embryo culture • haploid & dihaploid production • in vitro hybridization – protoplast fusion definitions • plant cell and tissue culture: cultural* ***published in biotechniques, vol. 32, no. 6, june 2002, pp ...*** *- published in biotechniques, vol. 32, no. 6, june 2002, pp 1296-1302 2 magnetic particles with a solution of polyethylene glycol and sodium chloride. the beads were washed multiple times with 70% ethanol and pure dna was eluted with water. while this method met the requirements listed above, we needed a technique that worked in 384-well* ***chapter 20 nongame mammals - wyoming*** *- 20.1-1 subchapter 20.1 nongame mammals other than bats nichole cudworth, laurie van fleet, david wilckens, and martin b. grenier i. small mammals (families soricidae, talpidae, sciuridae, geomyidae, heteromyidae,* ***biotechniques - new 'omics' technique taps into unknown ...*** *- new "omics" technique taps into unknown metabolome 01/23/2012 janelle weaver researchers using untargeted metabolomics identify a new candidate therapeutic target for chronic pain. bioinformatics analysis superimposed on synapse between neurons. the analysis revealed n,n-dimethylsphingosine (dms, above) as a naturally occurring metabolite and an* ***bi imaging - microscopyu*** *- 772 biotechniques vol. 33, no. 4 (2002) bi imaging. of achromatic objectives can lead to substantial artifacts when specimens are examined and imaged with color microscopy and photomicrography. if focus is chosen in the green region of the spectrum, then images will have a reddish-magenta* ***biochemistry general rna methods biology reports*** *- biotechniques rapid dispatches doi: 10.2144/000113864 biotechniques/rd rna biology methods 2 × **
biotechniques - new gels shed light on cancer-related protein *- biotechniques. “that’s why people have been trying so hard to purify brca2 for the past fifteen years.” although many laboratories have tried to purify brca2 to ascertain its particular biochemistry in an attempt to understand why this protein is implicated in so many hereditary cases of breast cancer, none have been successful until now.* ***ad specifications & submissions - future-science*** *- 1 for more information visit biotechniques specifications - print specifications - print width height full page trim area: 8.05” 9.98” 204.55 mm 269.62 mm live area: 0.25” (6.35 mm) inside the trim* ***references effectiveness and limitations of uracil-dna ...*** *- 48 biotechniques vol. 36, no. 1 (2004) min incubation on samples containing an average of only three pcr product molecules still resulted in detectable amplification in 4 of 20 samples, in-dicating that the starting number of molecules was not the sole reason for ...* ***autodimer: a screening tool for primer-dimer and hairpin ...*** *- biotechniques 37:226-231 (august 2004) the ability to select short dna oligonucleotide sequences capable of binding solely to their intended target is of great importance in developing nucleic acid based detection technolo-gies. applications such as multiplex pcr rely on primers binding to unique regions in a genome.* ***review - emory university department of medicine*** *- in this review, we highlight the common pitfalls when working with antibodies, common practices for validating antibodies, and levels of commercial antibody validation for seven vendors. finally, we share our algorithm* ***260/280 and 260/230 ratios nanodrop nd-1000 and nd-8000 8 ...*** *- biotechniques 22:474-481 (march 1997) wavelength accuracy of the spectrophotometers although the absorbance of a nucleic acid at 260 nm is generally on a plateau, the absorbance curve at 280 nm is quite steeply sloped. a slight shift in wavelength accuracy will have a large effect on 260/280 ratios.* ***molecular characterization of fungal species from pure ...*** *- molecular characterization of fungal species from pure cultures and environmental samples timothy tarbell fordham university department of biological sciences abstract traditionally, the species composition of fungal communities has been determined through a combination of media culturing and identification based on macro or microscopic features.* ***reports - fred hutch*** *- vol. 66 | no. 1 1520 63 biotechniques as a quantification method, ddpcr has demonstrated greater precision and sensitivity than real-time pcr (18). we demonstrate that quantisize accurately measures the size and concentration of target dna simultane - ously while avoiding the limitations of other quantification systems and, we* ***biotechniques: form follows flow?*** *- biotechniques: form follows flow? abstract this paper examines the eco-systems model that underlies the leed green building rating system, comparing it to a number of other contemporary manifestations of the same model.* ***benchmarks - university of washington*** *- biotechniques has provided readers with innovative laboratory methods and techniques for nearly 30 years. from early*

descriptions of dna extraction procedures and pcr methods to recent thought-provoking reviews and perspectives, biotechniques articles are timely, topical, and will have an immediate impact on your work in the lab. publishing in ... ***affinity proteomics to study endogenous protein perspectives*** *- vol. 58 |no. 3 2015 103 biotechniques i. affinity capture: principles two interacting molecules form the cognate groups of an affinity capture system (1,2). one group is the protein of interest or an affinity tag appended to the protein of interest via genetic engineering, resulting in expression of a tagged fusion protein* ***benchmarks an efficient method for purification of pcr ...*** *- 922 ı biotechniques ı biotechniques vol. 44 ı no. 7 ı 2008 benchmarks primer pairs that gave single or multiple pcr products were tested using the bigdye terminator v3.1 cycle sequencing kit on a 3130x1 dna genetic analyzer (applied biosystems, foster city, ca, usa). with this method, the pass rate (>100 bp with phred >q20)ranged from* ***gel electrophoresis virtual lab worksheet - teachengineering*** *- nanotechnology and cancer treatments lesson—gel electrophoresis virtual lab worksheet answer key instructions go to the following link and complete the gel electrophoresis virtual lab:* ***short technical reports - doudnalab*** *- biotechniques 30:544-554 (march 2001) abstract tobacco etch virus nia proteinase (nia-pro) has become the enzyme of choice for re - moving tags and fusion domains from recom - binant proteins in vitro. we have designed a mutant nia-pro that resists autoproteolytic inactivation and present an efficient method for producing large amounts of this ...* ***review - biomedical research*** *- review vol. 51 | no. 5 2011 313 biotechniques a broad range of fluorescent proteins (fps) of different colors, as well as their engineered analogs, are currently used as fluorescent tags for bioimaging (1–4). a key feature of all fps that has attracted enormous interest is their ability to self-generate the intrinsic* ***reports - lawrence university*** *- reports vol. 51 | no. 1 2011 43 biotechniques fluorescence labeling is a standard tool for studies of structure and dynamics in biological systems. recent improvements in single molecule fluorescence localization, such as stochastic optical reconstruction microscopy (storm) (1) and photoacti - vated localization microscopy (palm) (2),*

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